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Patent Number: SU517976
Publication date: 1976-06-15
Inventor(s):
Applicant(s):
Requested Patent: SU517976
Application SU19731864963 19730102
Priority Number(s): SU19731864963 19730102
IPC Classification: H02M1/08
EC Classification:
Equivalents:

Abstract

PRIORITY APPLN. INFO: SU 1973-1864963 19730102

AB SU 517976 A UPAB: 19930901

Pulse forming circuit for thyristor control contains capacitor charging circuit, avalanche transistor in series with load and pulse transformer. To provide steep pulse front the primary winding of transformer is connected through diode to control potential.

In self-oscillating mode capacitor (2) charges from potential on terminal (4) through resistor (3). When the potential on capacitor (2) reaches switching threshold of avalanche transistor (1), the transistor operates and passes into saturation by positive feedback from transformer (5). The sequence generates switching pulse in load (14).

After a fixed interval diode (15) opens and control potential is applied to transistor (1). Transformer (5) saturates and transistor (1) cuts off. Diode (10) and resistor (11) prevent parasitic generation of pulse. The sequence is repeated with recharging of capacitor (2).

IC H02M001-08